1 VQE results Aer Estimator (No Shots)

		(Full Hamiltonian)		Anharmonic Oscillator		$\Lambda = 4$ COYBLA Max 10K Iterations			
Ansatz	Tolerance	Converged runs	Mean iter	VQE min E.	Δ_{min}	VQE median E.	Δ_{median}	Exact	Time
RA r1 rl	1e-01	100/100	42	-1.397e-01	$2.5085e{-02}$	$6.8663e{-02}$	$2.3345e{-01}$	-1.6478526069e-01	00h 00m 16s
RA r1 rl	1e-02	100/100	166	-1.6428e - 01	$5.0822e{-04}$	-1.6083e-01	$3.9554e{-03}$	-	00h~00m~53s
RA r1 rl	1e - 03	100/100	341	-1.6478e - 01	$5.8576e{-06}$	-1.6474e - 01	$4.8128e{-05}$	-	$00h\ 02m\ 00s$
RA r1 rl	$1e{-04}$	99/100	556	-1.6479e - 01	$5.218e{-08}$	-1.6478e - 01	$4.3586e{-07}$	-	$00h\ 03m\ 35s$
RA r1 rl	$1e{-05}$	99/100	830	-1.6479e - 01	$9.7492e{-10}$	-1.6479e - 01	4.5297e - 09	-	$00h\ 04m\ 22s$
RA r1 rl	1e-06	97/100	1257	-1.6479e - 01	$5.3531e{-12}$	-1.6479e - 01	$5.0058e{-11}$	-	$00h\ 06m\ 32s$
RA r1 rl	1e - 07	98/100	1167	-1.6479e - 01	$4.7518e{-14}$	-1.6479e - 01	$4.2111e{-13}$	-	$00h\ 05m\ 26s$
RA r1 rl	$1e{-08}$	96/100	1364	-1.6479e - 01	$8.5487\mathrm{e}{-15}$	-1.6479e - 01	$6.3671\mathrm{e}{-14}$	-	$00h\ 06m\ 11s$
Ansatz	Tolerance	Converged runs	Mean iter	VQE min E.	Δ_{min}	VQE median E.	Δ_{median}	Exact	Time

Table 1: AAA